



17. Standing Waves

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Reporter's Theory - Pros & Cons

1. Excellent definition of the phenomenon
2. Included pictures

1. Not enough theory in the presentation about nodes and antinodes
2. Some text could not be read
3. He didn't provide sufficient theory just mathematical formulas
4. The formulas were not all used in the experiment.

Hypotheses & Experiment - Pros & Cons

1. Explained the experimental setup
2. Included pictures

1. Parameters did not exist
2. Did not clarify anything about the physique of the balls (size, shape, material)
3. No error bars in the graphs
4. No possible errors
5. Inefficient way to measure the ball size
6. Industry made balls does not mean the exact same size (should be included in the errors)

Suggestions for further improvement

1. Explain the axes of the graphs more
2. Include possible errors
3. Include error bars
4. Control the environmental conditions
5. Check the repeatability of your experiments
6. Explain the ball size, shape and material parameters and test them

Topics for discussion

1. Balls size, shape, material and how that would affect the results
2. Errors and error bars (is the experiment perfect?)
3. Graph axes explanation
4. Environmental conditions
5. Dilation/ contraction of the balls due to temperature and how that would affect the experiment.

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Thank You!

Greece - Team Fryganiotis

Spanou Kyriaki-Vasileia